

Figure 1.

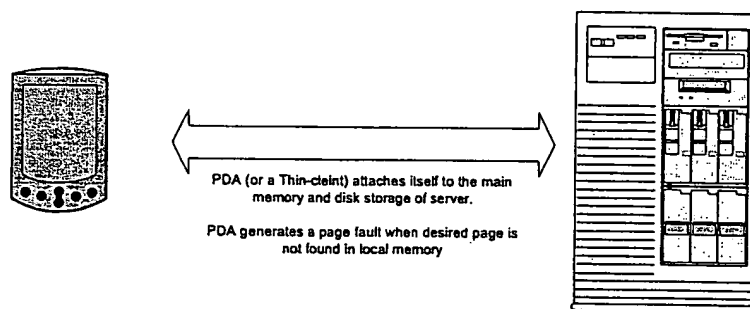


Figure 2:

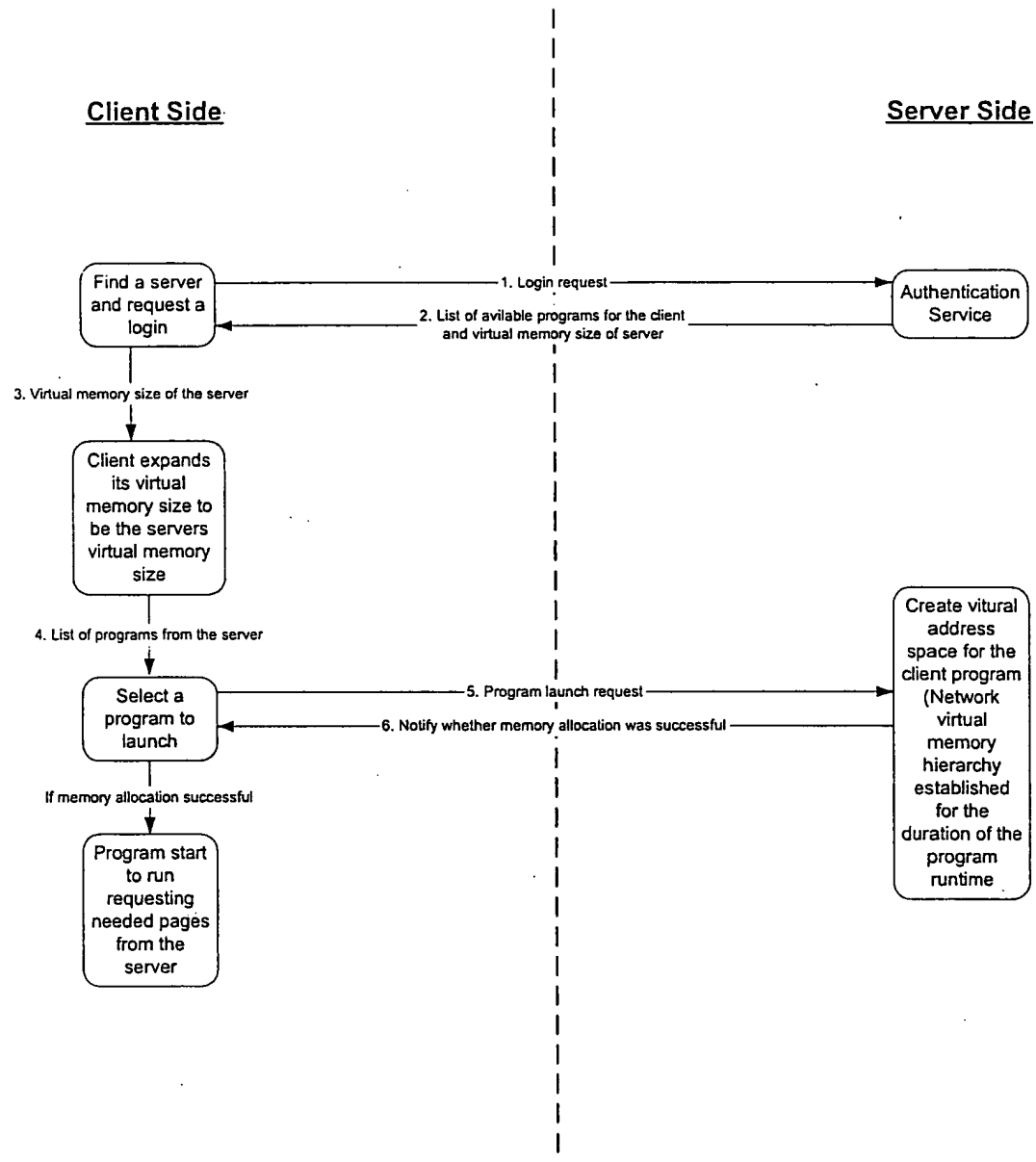


Figure 3:

```

Process PINVM_client ()
begin
  if (successful contacting a PINVM server)
    Send the client info. (i.e., architecture, OS, etc.)
    Prompted login
    if (login successful)
      get server's available virtual memory space size for client
      attach the virtual memory space to the client's memory hierarchy
      get the list of programs for the client from the server
    endif
    When the user wants to launch a program in the server
      Fork off a child process for a PINVM service for the program
    EndWhen
  endif
end

```

Figure 4:

```

Process PINVM_application.server.daemon ()
begin
  name = get application program name to load;
  addrspace = create_vm (name);
  while (not program_termination);
    virtual_address = wait_for_page_fault (from_client);
    handle_page_fault(virtual_address);
    send the page over to the client
  endwhile
end

```

Figure 5: